46

RAW SEQUENCE LISTING PATENT APPLICATION US/09/726,899

DATE: 01/27/2001 TIME: 00:25:33

INPUT SET: S36328.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQUENCE LISTING
2		General Information SEQUENCE LISTING ENTERED
3	(1)	General Information
4		(i) appropriate parameter of the
5		(i) APPLICANT: Bandman, Olga
6		Goli, Surya K. Hillman, Jennifer L.
7		Hillman, Jennifer L.
8 9		(ii) TITLE OF THE INVENTION: NOVEL SUBUNITS OF NADH DEHYDROGENASE
10		(II) TITLE OF THE INVENTION: NOVEL SOBORITS OF NADA DERIDROGENASE
11		(iii) NUMBER OF SEQUENCES: 12
12		(111) NONDER OF SEQUENCES. 12
13		(iv) CORRESPONDENCE ADDRESS:
14		(A) ADDRESSEE: Incyte Pharmaceuticals, Inc.
15		(B) STREET: 3174 Porter Drive
16		(C) CITY: Palo Alto
17		(D) STATE: CA
18		(E) COUNTRY: USA
19		(F) ZIP: 94304
20		(2) 222 3330
21		(v) COMPUTER READABLE FORM:
22		(A) MEDIUM TYPE: Diskette
23		(B) COMPUTER: IBM Compatible
24		(C) OPERATING SYSTEM: DOS
25		(D) SOFTWARE: FastSEQ for Windows Version 2.0
26		
27		(vi) CURRENT APPLICATION DATA:
28		(A) APPLICATION NUMBER: 09/726,899
29		(B) FILING DATE:
30		(C) CLASSIFICATION:
31		
32		(vii) PRIOR APPLICATION DATA:
33		(A) APPLICATION NUMBER: 08/785,065
34		(B) FILING DATE:
35		
36		(viii) ATTORNEY/AGENT INFORMATION:
37		(A) NAME: Billings, Lucy J.
38		(B) REGISTRATION NUMBER: 36,749
39		(C) REFERENCE/DOCKET NUMBER: PF-0187 US
40		/'
41		(ix) TELECOMMUNICATION INFORMATION:
42		(A) TELEPHONE: 415-855-0555
43		(B) TELEFAX: 415-845-4166
44		(C) TELEX:
45		

RAW SEQUENCE LISTING PATENT APPLICATION US/09/726,899

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47
               (2) INFORMATION FOR SEQ ID NO:1:
48
49
            (i) SEQUENCE CHARACTERISTICS:
              (A) LENGTH: 264 amino acids
50
              (B) TYPE: amino acid
51
              (C) STRANDEDNESS: single
52
53
              (D) TOPOLOGY: linear
54
            (vii) IMMEDIATE SOURCE:
55
56
               (A) LIBRARY: Consensus
57
               (B) CLONE: Consensus
58
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
59
60
     Met Ala Ala Ala Val Ala Arg Leu Trp Trp Arg Gly Ile Leu Gly
61
62
     Ala Ser Ala Leu Thr Arg Gly Thr Gly Arg Pro Ser Val Leu Leu Leu
63
65
      Pro Val Arg Arg Glu Ser Ala Gly Ala Asp Thr Arg Pro Thr Val Arg
66
                                  40
      Pro Arg Asn Asp Val Ala His Lys Gln Leu Ser Ala Phe Gly Glu Tyr
67
68
                              55
     Val Ala Glu Ile Leu Pro Lys Tyr Val Gln Gln Val Gln Val Ser Cys
69
70
                          70
     Phe Asn Glu Leu Glu Val Cys Ile His Pro Asp Gly Val Ile Pro Val
71
72
                                          90
73
     Leu Thr Phe Leu Arg Asp His Thr Asn Ala Gln Phe Lys Ser Leu Val
74
                                      105
75
     Asp Leu Thr Ala Val Asp Val Pro Thr Arg Gln Asn Arg Phe Glu Ile
76
                                  120
                                                      125
77
     Val Tyr Asn Leu Leu Ser Leu Arg Phe Asn Ser Arg Ile Arg Val Lys
78
                             135
                                                 140
     Thr Tyr Thr Asp Glu Leu Thr Pro Ile Glu Ser Ala Val Ser Val Phe
79
80 ,
                         150
                                              155
     Lys Ala Ala Asn Trp Tyr Glu Arg Glu Ile Trp Asp Met Phe Gly Val
81
82
                                          170
                     165
83
     Phe Phe Ala Asn His Pro Asp Leu Arg Arg Ile Leu Thr Asp Tyr Gly
84
                 180
                                      185
     Phe Glu Gly His Pro Phe Arg Lys Asp Phe Pro Leu Ser Gly Tyr Val
85
                                  200
     Glu Leu Arg Tyr Asp Asp Glu Val Lys Arg Val Val Ala Glu Pro Val
87
                              215
                                                  220
     Glu Leu Ala Gln Glu Phe Arg Lys Phe Asp Leu Asn Ser Pro Trp Glu
89
90
                          230
                                              235
     Ala Phe Pro Val Tyr Arg Gln Pro Pro Glu Ser Leu Lys Leu Glu Ala
91
92
                     245
                                          250
     Gly Asp Lys Lys Pro Asp Ala Lys
93
94
                 260
95
96
               (2) INFORMATION FOR SEQ ID NO:2:
97
98
            (i) SEQUENCE CHARACTERISTICS:
             (A) LENGTH: 1023 base pairs
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RAW SEQUENCE LISTING PATENT APPLICATION US/09/726,899

DATE: 01/27/2001 TIME: 00:25:33

INPUT	SET:	S363	28.raw
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	INPUT SET: \$36328.1	raw
100	(B) TYPE: nucleic acid	
101	(C) STRANDEDNESS: single	
102	(D) TOPOLOGY: linear	
103		
104	(vii) IMMEDIATE SOURCE:	
105	(A) LIBRARY: Consensus	
106	(B) CLONE: Consensus	
107		
108	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
109	(,,,,,,,	
110	GAACTCTAAT ACGAGCACTA TAGGGAAAGC TGGTAGCCTG CAGGTACCGG TCCGGAATTC	60
111	CCGGGTCGAC CCACGCGTCC GCCGTGCCCT TGGGGCTCCG TGTCCTGCTG TCTTTCCGTC	120
112	CGCTGCCTAG TCTGCATCTG AGTAACATGG CGGCGGCGGC GGTAGCCAGG CTGTGGTGGC	180
113	GCGGGATCTT GGGGGCCTCG GCGCTGACCA GGGGGACTGG GCGACCCTCC GTTCTGTTGC	240
114	TGCCGGTGAG GCGGGAGAGC GCCGGGGCCG ACACGCGCCC CACTGTCAGA CCACGGAATG	300
115	ATGTGGCCCA CAAGCAGCTC TCAGCTTTTG GAGAGTATGT GGCTGAAATC TTGCCCAAGT	360
116	ATGTCCAACA AGTTCAGGTG TCCTGCTTCA ATGAGTTAGA GGTCTGTATC CATCCTGATG	420
117	GCGTCATCCC AGTGCTGACT TTCCTCAGGG ATCACACCAA TGCACAGTTC AAATCTCTGG	480
118	TTGACTTGAC AGCAGTGGAC GTCCCAACTC GGCAAAACCG TTTTGAGATT GTCTACAACC	540
119	TGTTGTCTCT GCGCTTCAAC TCACGGATCC GTGTGAAGAC CTACACAGAT GAGCTGACGC	600
120	CCATTGAGTC TGCTGTCTCT GTGTTCAAGG CAGCCAACTG GTATGAAAGG GAGATCTGGG	660
121	ACATGTTTGG AGTCTTCTTT GCTAACCACC CTGATCTAAG AAGGATCCTG ACAGATTATG	720
122	GCTTCGAGGG ACATCCTTTC CGGAAAGACT TTCCTCTATC TGGCTATGTT GAGTTACGTT	780
123	ATGATGATGA AGTGAAGCGT GTGGTGGCAG AGCCGGTGGA GTTGGCCCAA GAGTTCCGCA	840
124	AATTTGACCT GAACAGCCCC TGGGAGGCTT TCCCAGTCTA TCGCCAACCC CCGGAGAGTC	900
125	TCAAGCTTGA AGCCGGAGAC AAGAAGCCTG ATGCCAAGTA GCTCCAGGGA ACGCATGTGG	960
126		L020
126		L023
128	IAC	.023
129	(2) INFORMATION FOR GEO ID NO.2.	
	(2) INFORMATION FOR SEQ ID NO:3:	
130 131	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 129 amino acids	
132 133	(B) TYPE: amino acid	
134 135	(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
136	(D) TOPOLOGI: Tillear	
137	(vii) IMMEDIATE SOURCE:	
138	(A) LIBRARY: Consensus	
139	(B) CLONE: Consensus	
	(B) CLONE: Consensus	
140	(mi) GEOMENCE DECERTIFICAL GEO ID NO. 2.	
141	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
142	Mak Can Pha Dua Iva Dua Iva Dua Can Can Iou And Dhu Iou Dua Clu	
143	Met Ser Phe Pro Lys Tyr Lys Pro Ser Ser Leu Arg Thr Leu Pro Glu	
144	1 5 10 15	
145	Thr Leu Asp Pro Ala Glu Tyr Asn Ile Ser Pro Glu Thr Arg Arg Ala	
146	20 25 30	
147	Gln Ala Glu Arg Leu Ala Ile Arg Ala Gln Leu Lys Arg Glu Tyr Leu	
148	35 40 45	
149	Leu Gln Tyr Asn Asp Pro Asn Arg Arg Gly Leu Ile Glu Asn Pro Ala	
150	50 55 60	
151	Leu Leu Arg Trp Ala Tyr Ala Arg Thr Ile Asn Val Tyr Pro Asn Phe	
152	65 70 75 80	

RAW SEQUENCE LISTING PATENT APPLICATION US/09/726,899

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	INPUT SET: S36328.ra	w
153 154	Arg Pro Thr Pro Lys Asn Ser Leu Met Gly Ala Leu Cys Gly Phe Gly 85 90 95	
155 156	Pro Leu Ile Phe Ile Tyr Tyr Ile Ile Lys Thr Glu Arg Asp Arg Lys 100 105 110	
157 158	Glu Lys Leu Ile Gln Glu Gly Lys Leu Asp Arg Thr Phe His Leu Ser 115 120 125	
159 160	Tyr	
161		
162	(2) INFORMATION FOR SEQ ID NO:4:	
163		
164 165	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 451 base pairs	
166	(B) TYPE: nucleic acid	
167	(C) STRANDEDNESS: single	
168	(D) TOPOLOGY: linear	
169		
170	(vii) IMMEDIATE SOURCE:	
171	(A) LIBRARY: Consensus	
172	(B) CLONE: Consensus	
173 174	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
175	(XI) SEQUENCE DESCRIPTION: SEQ ID NO.4:	
176	CCAAGATGTC GTTCCCAAAG TATAAGCCGT CGAGCCTGCG CACTCTGCCT GAGACCCTCG	60
177		.20
178	1	.80
179	TCATCGAAAA TCCTGCCTTG CTTCGTTGGG CCTATGCAAG AACAATAAAT GTCTATCCTA 2	40
180		00
181		60
182		20
183 184	TCCTGCCTAA ATAAATCATC TATTAATCAT T	51
185	(2) INFORMATION FOR SEQ ID NO:5:	
186	(2) Intoldation for only is no.s.	
187	(i) SEQUENCE CHARACTERISTICS:	
188	(A) LENGTH: 106 amino acids	
189	(B) TYPE: amino acid	
190	(C) STRANDEDNESS: single	
191	(D) TOPOLOGY: linear	
192	(
193	(vii) IMMEDIATE SOURCE: (A) LIBRARY: Consensus	
194 195	(B) CLONE: Consensus	
196	(b) Chore. Consensus	
197	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
198		
199	Met Pro Phe Leu Asp Ile Gln Lys Arg Phe Gly Leu Asn Ile Asp Arg	
200	1 5 10 15	
201	Trp Leu Thr Ile Gln Ser Gly Glu Gln Pro Tyr Lys Met Ala Gly Arg	
202	20 25 30	
203	Cys His Ala Phe Glu Lys Glu Trp Ile Glu Cys Ala His Gly Ile Gly	
204	35 40 45	

205 Tyr Thr Arg Ala Glu Lys Glu Cys Lys Ile Glu Tyr Asp Asp Phe Val

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INPUT SET: S36328.raw

	INPUT SET: S36328.raw
206	50 55 60
207	Glu Cys Leu Leu Arg Gln Lys Thr Met Arg Arg Ala Gly Thr Ile Arg
208	65 70 75 80
209	Lys Gln Arg Asp Lys Leu Ile Lys Glu Gly Lys Tyr Thr Pro Pro
210	85. 90 95
211	His His Ile Gly Lys Gly Glu Pro Arg Pro
212	100 105
213	100
214	(2) INFORMATION FOR SEQ ID NO:6:
214	(2) INFORMATION FOR SEQ 1D NO. 6.
	(+) GROUPINGE GUADA CERTICAL
216	(i) SEQUENCE CHARACTERISTICS:
217	(A) LENGTH: 470 base pairs
218	(B) TYPE: nucleic acid
219	(C) STRANDEDNESS: single
220	(D) TOPOLOGY: linear
221	
222	(vii) IMMEDIATE SOURCE:
223	(A) LIBRARY: Consensus
224	(B) CLONE: Consensus
225	·
226	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
227	
228	AGCTAGTCGT TCTGAAGCGG CGGCCAGAGA AGAGTCAAGG GCACGAGCAT CGGCCATGCC 60
229	TTTCTTGGAC ATCCAGAAAA GGTTCGGCCT TAACATAGAT CGATGGTTGA CAATCCAGAG 120
230	TGGTGAACAG CCCTACAAGA TGGCTGGTCG ATGCCATGCT TTTGAAAAAG AATGGATAGA 180
231	ATGTGCACAT GGAATCGGTT ATACTCGGGC AGAGAAAGAG TGCAAGATAG AATATGATGA 240
232	TTTCGTAGAG TGTTTGCTTC GGCAGAAAAC GATGAGACGT GCAGGTACCA TCAGGAAGCA 300
233	GCGGGATAAG CTGATAAAGG AAGGAAAGTA CACCCCTCCA CCTCACCACA TTGGCAAGGG 360
234	GGAGCCTCGG CCCTGAACAG AGCAGCTGCT GATGTCTGGA GGCTGATTTT CCTGTTCTCT 420
235	GTTCTCCACT GGAAAGGTTG TTTACGACAA ACCTCCTTGT CAAAGTGTGT 470
236	GITCHERT GUARAGUIG TITACGACAA ACCICCITGI CARROTOTGI
237	(2) INFORMATION FOR SEQ ID NO:7:
238	(2) INFORMATION FOR SEQ ID NO. /.
239	(i) SEQUENCE CHARACTERISTICS:
240	(A) LENGTH: 119 amino acids
	, ,
241	(B) TYPE: amino acid
242	(C) STRANDEDNESS: single
243	(D) TOPOLOGY: linear
244	() ()
245	(vii) IMMEDIATE SOURCE:
246	(A) LIBRARY: Consensus
247	(B) CLONE: Consensus
248	
249	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
250	
251	Met Ile Ala Arg Arg Asn Pro Glu Pro Leu Arg Phe Leu Pro Asp Glu
252	1 5 10 15
253	Ala Arg Ser Leu Pro Pro Pro Lys Leu Thr Asp Pro Arg Leu Leu Tyr
254	20 25 30
255	Ile Gly Phe Leu Gly Tyr Cys Ser Gly Leu Ile Asp Asn Leu Ile Arg
256	35 40 45
257	Arg Arg Pro Ile Ala Thr Ala Gly Leu His Arg Gln Xaa Xaa Tyr Ile
258	50 55 60

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/726,899

DATE: 01/27/2001 TIME: 00:25:35

INPUT SET: S36328.raw

Line

Error

Original Text

SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/09/726,899

DATE: 01/27/2001 TIME: 00:25:35

INPUT SET: S36328.raw

< < THERE ARE NO ITEMS MISSING >>

SEQUENCE CORRECTION REPORT PATENT APPLICATION US/09/726,899

DATE: 01/27/2001 TIME: 00:25:35

INPUT SET: S36328.raw

Line	Original Text	Corrected Text
3	(1) General Information	(1) GENERAL INFORMATION:
9	(ii) TITLE OF THE INVENTION: NOVEL SUBUNITS O	(ii) TITLE OF INVENTION: NOVEL SUBUNITS OF NA